

Application No.: 10/759,831
Amendment Dated: March 16, 2007
Reply to Office Action of: December 19, 2006

MTS-3185US4

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-26. (Cancelled)

27. (Currently Amended) A camera for shape measuring or object extracting, having light-emitting means of irradiating an object with projected light having a specified radiation pattern, for image-picking up reflected light of the light-emitting means from the object to obtain a depth image using light intensity of an image picked up, comprising:

recording media for recording the depth imagedistances of pixels on the image picked up, the depth distances being calculated based on two fields of the image, which have been taken by using different radiation patterns;

object extracting means of extracting only (1) an object which exists less than a depth distance denoted by a user, or only (2) an object which exists within a range of a depth distance denoted by the user, by using the recorded depth imagedistances.

28. (Previously Presented) A camera according to claim 27, further comprising a display panel for displaying the extracted object, wherein a portion taken for the background or foreground with respect to the displayed object by a malfunction in an extracting process is denoted by the user, whereby the erroneous background or foreground extracting operation is corrected.

29-32. (Cancelled)

33. (Withdrawn) A camera for shape measuring or object extracting, comprising light-emitting means for irradiating an object with projected light having

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a specified radiation pattern, for image-picking up reflected light of said light-emitting means from said object to obtain a depth image using light intensity of the image picked up,

said camera serves dually as a video camera capable of picking up a motion image to record it in a recording medium while said light-emitting means does not emit any light, and

an index signal is added, to image data picked up when said light-emitting means emits light, and a depth image is calculated using only a specified image to which said index signal has been added.

34. (Cancelled)

35. (Currently Amended) A camera according to claim 27, wherein the object extracting means extracts a color image for ~~only~~ the object which exists less than the depth distance denoted by the user, or ~~only~~ the object which exists within the range of the depth distance denoted by the user.